

## **Graphene Coatings for Heat Treated Steel**

By Tata Steel Europe | Category: Dare to Try

Tata steel is a key supplier of differentiated product such as automotive ultra-high strength steels (HQ1500). This material is widely used for automotive hot stamping market which is estimated to be around 15 million parts produced per year in Europe alone. Usually the material undergoes heat treatments up to 900°C to achieve final mechanical properties. Subsequently, graphene coatings were tested on uncoated HQ1500 and zinc coated substrates. Graphene coating offers unique protection to avoid oxidation and decarburization issues.

